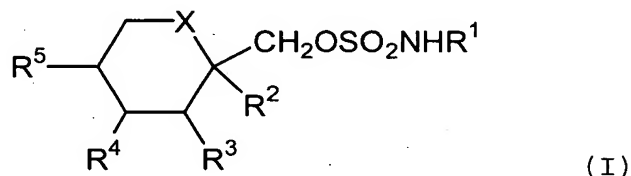


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. Claim 1 (Currently amended) A method for treating Type II diabetes mellitus in a mammal~~mammals~~ afflicted with such condition comprising administering to said mammal a therapeutically effective amount of a compound of the formula I:

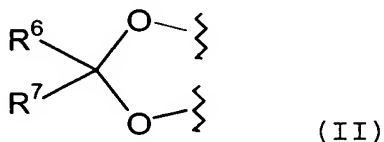


wherein

X is CH₂ or oxygen;

R¹ is hydrogen or alkyl; and

R², R³, R⁴ and R⁵ are independently hydrogen or lower alkyl and, when X is CH₂, R⁴ and R⁵ may be alkene groups joined to form a benzene ring and, when X is oxygen, R² and R³ and/or R⁴ and R⁵ together may be a methylenedioxy group of the following formula (II):



wherein

R⁶ and R⁷ are the same or different and are hydrogen, lower alkyl or are alkyl and are joined to form a cyclopentyl or cyclohexyl ring;

in combination with a therapeutically effective amount of one or more anti-diabetic agents selected from chlorpropamide, tolazamide, tolbutamide, glyburide, glipizide, glimepiride, repaglinide, metformin, rosiglitazone, pioglitazone, troglitazone, isaglitazone, 2-[2-[(2R)-4-hexyl-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-2-yl]ethoxy]-benzene acetic acid, GW2570, targretin, 9-cis-retinoic acid, ascarbose, miglitol, L-783281, TE-17411, T-1095, BAY-279955, phlorizen, pramlintide, regular-acting insulin, short-acting insulin, intermediate-acting insulin, long-acting insulin, inhaled insulin, an insulin analogue, acetohexamide, buformin, glibornuride, glyhexamide, glymidine, linoglriride, palmoxirate, zopolrestat, etoformin, gllicalzide, or glypinamide.

Claim 2 (original) The method of claim 1 wherein the compound of formula I is topiramate.

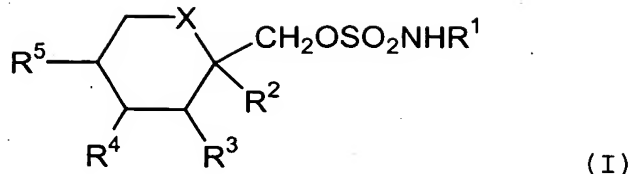
Claim 3 (original) The method of claim 1, wherein the therapeutically effective amount of the compound of formula I is from about 32 to 512 mg.

Claim 4 (original) The method of claim 1, wherein the therapeutically effective amount of the compound of formula I is of from about 16 to 256 mg once or twice daily.

Claim 5 (canceled)

Claim 6 (canceled)

Claim 7 (Currently amended) A method of treating Syndrome X (Insulin Resistance Syndrome, Metabolic Syndrome, or Metabolic Syndrome X) in a mammal~~mammals~~ afflicted with such condition comprising administering to said mammal a therapeutically effective amount of a compound of the formula I:

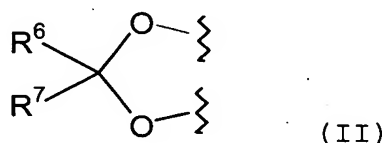


wherein

X is CH₂ or oxygen;

R¹ is hydrogen or alkyl; and

R², R³, R⁴ and R⁵ are independently hydrogen or lower alkyl and, when X is CH₂, R⁴ and R⁵ may be alkene groups joined to form a benzene ring and, when X is oxygen, R² and R³ and/or R⁴ and R⁵ together may be a methylenedioxy group of the following formula (II):



wherein

R⁶ and R⁷ are the same or different and are hydrogen, lower alkyl or are alkyl and are joined to form a cyclopentyl or cyclohexyl ring;

in combination with a therapeutically effective amount of one or more anti-diabetic ~~agent~~agents selected from chlorpropamide, tolazamide, tolbutamide, glyburide, glipizide, glimepiride, repaglinide, metformin, rosiglitazone, pioglitazone, troglitazone, isaglitazone, 2-[2-[(2R)-4-hexyl-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-2-yl]ethoxy]-benzene acetic acid, GW2570, targretin, 9-cis-retinoic acid, ascarbose, miglitol, L-783281, TE-17411, T-1095, BAY-279955, phlorizen, pramlintide, regular-acting insulin, short-acting insulin, intermediate-acting insulin, long-acting insulin, inhaled insulin, an insulin analogue, acetoexamide, buformin, glibornuride, glyhexamide, glymidine, linoglriride, palmoxirate, zopolrestat, etoformin, gllicalzide, or glypinamide.

Claim 8 (Currently amended) The method of claim ~~8~~7 wherein the compound of formula I is topiramate.

Claim 9 (Currently amended) The method of claim ~~8~~7, wherein the therapeutically effective amount of the compound of formula I is from about 32 to 512 mg.

Claim 10 (Currently amended) The method of claim ~~8~~7, wherein the therapeutically effective amount of the compound of formula I is of from about 16 to 256 mg once or twice daily.

Claim 11 (canceled)

Claim 12 (canceled)